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ABSTRACT

This report covers the availability of library service to osteopathic physicians of Detroit and the surrounding area. The appointments of 813 osteopathic physicians were identified from the staff lists of 16 hospitals in southeastern Michigan. A staff physician was identified as having library service if the hospital in which he has an appointment has library staff which makes it possible to have a dependable interlibrary loan service. Since only three hospitals have such an administrative unit, less than 40% of the physicians can be said to have access to the library resources of the community. Because of the number of appointments each physician has and because of the distance between the hospitals and his office any attempt to develop other than a library access service in each hospital can accomplish little in making the scholarly record available to the practicing physician. Further, because of the commitment of many of the survey hospitals to medical education, improved library service appears almost mandatory. (Author/JB)

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WAYNE STATE UNIVERSITY
School of Medicine
Library
Biomedical Information Service Center

Report

No. 43

Availability of Library Service to Osteopathic Physicians in Southeastern Michigan*

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

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by

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INTRODUCTION

In two previous studies published in this series an effort was made to determine what access the physicians of Detroit and the surrounding area have to the medical library resources of the community (1). This report covers the availability of library service to osteopathic physicians of the same area.

ASSUMPTIONS AND METHOD

Each physician's hospital appointments were identified through hospital staff lists. The assumption being that if the physician is to be provided library service in his work environment, then it must be given at hospitals; the day when the physician can have an electronic black box in his office through which he can have access to the entire, or even parts of, the scholariy record is still years away. Further, if individual hospitals are to provide library service to physicians, some administrative arrangement must exist between hospitals and resource libraries; the quantity and complexity of biomedical literature makes it impossible, even for the largest institutions, to collect and have available all documents that might provide information for the physician to support his daily work.

The population under study involves the physician staff of sixteen osteopathic hospitals in southeastern Michigan in the spring 1967. Although this represents less than half the osteopathic hospitals in Michigan, the hospitals have over 60% of the osteopathic hospital beds of Michigan. The study identified 813 physicians who make up about 48% of the total D.O.'s in Michigan (2). A completely accurate picture of hospital appointments is difficult to obtain because not all hospitals prepare their staff lists on the same date; some physicians undoubtedly have appointments in hospitals other than the 16 included in this study.

FINDINGS AND DISCUSSION

Each physician was identified as to the type of appointments he held and in which hospital (Table 1). The data of Table 1 are summarized in Tables 2 and 3. The 813 physicians hold collectively 1858 appointments, averaging 2.3 appointments per physician. It should be noted, however, that one-third of the physicians hold but one appointment and another third hold two appointments (Table 3). Or, to put it another way, two thirds of the physicians work

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(1) Pings, V.M. Availability of hospital health science library service to Wayne County Medical Society physicians. Wayne State University School of Medicine Library and Biomedical Information Service Center. Report No. 36, Detroit, May 1967.

_____. Physician's actual and potential access to the scholarly record of medicine in Metropolitan Detroit and surrounding areas. Wayne State University School of Medicine Library and Biomedical Information Center. Report No. 42, February 1968.

(2) Michigan Osteopathic Journal, Directory 1967-68, 32, No. 7, Sept. 1967.

with two or more hospitals. Of the total 1858 appointments, 1723 or about 93% are full privilege appointments. The percentage of full appointments of the physicians identified in other studies is not as high, being only about 73%. Similarly, only 48% of the M.D. population have two or more hospital appointments. These differences can in part be explained by the fact that an appointment in four hospitals automatically involves an appointment in one other hospital; for example, an appointment at Garden City also involves an appointment at Ridgeway.

A staff physician is identified as having library service if the hospital in which he has an appointment has library staff which makes it possible to have a dependable interlibrary loan service. Since only three hospitals have such an administrative unit, less than 40%, or a few more than 300 of the 800 physicians, can be said to have access to the library resources of the community (3).

This study clearly indicates that a large oral communication network exists among osteopathic physicians. Table 5 shows how many of the staff of each hospital have appointments in one of the other hospitals. Because each of four hospitals share their staff completely with one other hospital only 12 units are represented. There are 132 possible appointment sharing possibilities in this matrix; all but 14 of these occur. However, many of the hospitals share but one or two physicians between them. Table 6 demonstrates the instances in which 10% or more of the physician staff is shared with another hospital. Even this array shows a formidable mobility of physicians. Although Tables 5 and 6 show that the potentiality exists for osteopathic physicians to share information simply because they are able to meet with one another in hospital environments, how effective is this network? An exercise in manipulating the data was undertaken. The results cannot be considered to represent the actual situation, but it may give an indication that further study is needed.

The 209 physicians of the Detroit Osteopathic Hospital (DOH) who have an appointment in at least one other hospital were placed on the graph in Figure 1. The abscissa represents the approximate distance of the hospital from DOH. The ordinate shows the number of the 209 physicians with an appointment at each of the other hospitals. Now if it can be assumed that each of the 209 physicians were to go to DOH and to at least one other hospital (in the same ratio as the total of the appointments), these physicians in one day would have to travel 2170 miles. Assuming another unverified condition that travel in the Detroit area takes about 10 miles per hour (which would include parking and walking to the actual place of work) then 217 physician hours per day are used by these physicians in traveling between hospitals. Let us further assume that each physician consumes one-half hour getting from his office to one or another of the two hospitals he visits. This requires another 105 physician hours. If the average

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(3) Approximately 75% of the M.D. population of the area have access to library service.

physician works 10 hours per day (not counting commuting time to and from his home) then over 320 physician hours are used in traveling between hospitals and office. If this transportation of physicians could be eliminated, the equivalent of 32 additional physicians could be added to Detroit's physician manpower pool.

This hypothetical calculation was not meant to make any judgment about the administration of osteopathic health care, rather it was used to emphasize the basic assumption of this study: that the obvious and the best place for library service for physicians is in the hospital environment -- in all hospitals. There does not appear to be any other administrative organization which can bring the scholarly record to the physician. With the work scheduled now maintained by physicians, it would be useless to create any centralized institution to which the physician would have to travel for information in libraries.

There is yet another situation described in the Carpenter report, which relates directly to the data of this study.

> The Michigan osteopathic hospitals are an important resource in the undergraduate and post-graduate training of osteopathic physicians. Three of the five osteopathic colleges are affiliated with Michigan hospitals for the clinical clerkship of fourth-year students. The Kirksville school if affiliated with Art Center..., Botsford General..., and Zieger.... The Michigan hospitals account for 518 of the 776 teaching beds available to Kirksville students... The Chicago College of Osteopathy relies heavily on the Detroit Osteopathic Hospital.... Each fourth-year Chicago student spends a 10 week rotating clerkship at the Detroit hospital. The Des Moines College is affiliated with Flint Osteopathic Hospital* which provides 250 of the 900 teaching beds in hospitals affiliated with the Des Moines School. (4)

In post-graduate education 9 of the 16 hospitals maintain residency programs. Of all the approved osteopathic residency programs of the nation, 44% of them are maintained in Michigan, and of the 278 residencies in Michigan, 217 are in these survey hospitals.

The age in which a physician's academic education is related to a few basic texts and the remainder to the art of medicine, learned through observation, has long since passed. Encyclopedic knowledge of all of medicine may never have been possible, but in this age with massive concentration in research medical education must be directed toward problem solving. Problem solving depends upon the use of the generalities of science as well as the awareness of specific techniques and skills. These no longer can be taught

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* Not part of this survey.

(4) Carpenter, E.S. Osteopathy in the United States and Michigan. Ann Arbor, November 1967, pp. 38-39.

through the oral preceptor tradition. With the tremendous commitment of the osteopathic hospitals to the education of future physicians the access to the scholarly record now available, not only for students but also instructors, appears so limited that sound modern medical education is in jeopardy, particularly when it has been demonstrated that the smaller hospital is capable of supporting a dependable library service (5).

SUMMARY AND CONCLUSION

The appointments of 813 osteopathic physicians were identified from the staff lists of 16 hospitals in southeastern Michigan. From these data it was determined that only about 40% of the physicians have appointments in hospitals through which they can get any dependable library service. Because of the number of appointments each physician has and because of the distance between the hospitals and his office any attempt to develop other than a library access service in each hospital can accomplish little in making the scholarly record available to the practicing physician. Further, because of the commitment of many of the survey hospitals to medical education, improved library service appears almost mandatory.

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(5) Rowland, John A. Model library for the smaller hospital. The Osteopathic Hospital 12:4-8, April, 1968.

Table 1. Appointments of Osteopathic Physicians in Metropolitan Detroit Osteopathic Hospitals

Legend

A = Attending status

A-0 = Attending status at indicated hospital with a non-attending status in another hospital

A-1 = Attending status at indicated hospital with an attending status in one other hospital

A-2 = Attending status at indicated hospital with an attending status in two other hospitals

A-3 = Attending status at indicated hospital with an attending status in three other hospitals

A-4 = Attending status at indicated hospital with an attending status in four other hospitals

A-5 = Attending status at indicated hospital with an attending status in five other hospitals

A-6 = Attending status at indicated hospital with an attending status in six other hospitals

A-7 = Attending status at indicated hospital with an attending status in seven other hospitals

A-8 = Attending status at indicated hospital with an attending status in eight other hospitals

A-9 = Attending status at indicated hospital with an attending status in nine other hospitals

N = Non-attending status

N-0 = Non-attending status at indicated hospital with no attending status in any other hospital

N-1 = Non-attending status at indicated hospital with attending status in one other hospital

N-2 = Non-attending status at indicated hospital with attending status in two other hospitals

N-3 = Non-attending status at indicated hospital with attending status in three other hospitals

N-4 = Non-attending status at indicated hospital with attending status in four other hospitals

N-5 = Non-attending status at indicated hospital with attending status in five other hospitals

N-6 = Non-attending status at indicated hospital with attending status in six other hospitals

N-7 = Non-attending status at indicated hospital with attending status in seven other hospitals

Table 1 (Cont'd)

	Physicians with one appointment			Physicians with two appointments					Physicians with three appointments			
	A	N	Total	A-0	A-1	N-0	N-1	Total	A-1	A-2	N-2	Total
Art Center	30	4	34	7	5	1	1	14	1	17	1	19
Avon	9	2	11	-	4	-	4	8	-	2	1	3
Bi-County	1	-	1	7	72	-	-	79	7	22	-	29
Botsford	1	-	1	-	62	-	-	62	3	28	-	31
Detroit Osteopathic	46	5	51	1	66	1	16	84	3	21	14	38
Garden City	-	-	-	-	81	2	-	83	2	18	-	20
Ridgewood	-	-	-	-	81	2	-	83	2	18	-	20
Martin Place-East	-	-	-	-	34	-	-	34	5	28	-	33
Martin Place-West	-	-	-	-	34	-	-	34	5	28	-	33
Mt. Clemens	45	1	46	2	17	-	1	20	1	4	-	5
Northwest	6	-	6	1	1	-	-	2	-	13	-	13
Palmer-East	-	-	-	-	2	-	-	2	1	5	-	6
Palmer-West	-	-	-	-	2	-	-	2	1	5	-	6
Pontiac	59	2	61	4	3	-	-	7	3	14	-	17
Riverside	60	2	62	2	2	-	-	4	-	7	3	10
Zieger	3	-	3	-	62	-	-	62	3	26	-	29
	260	16	276	24	528	6	22	580	37	256	19	312

	Physicians with four appointments						Physicians with five appointments							
	A-0	A-2	A-3	N-1	N-2	Total	A-1	A-2	A-3	A-4	N-2	N-3	N-4	Total
Art Center	-	1	-	-	-	1	-	-	-	3	-	1	-	4
Avon	-	-	1	-	-	1	1	-	-	-	1	-	1	3
Bi-County	1	5	35	-	-	41	1	2	1	8	-	-	-	12
Botsford	-	1	35	-	-	36	1	-	9	10	-	-	-	20
Detroit Osteopathic	-	-	30	1	10	41	-	-	-	10	-	2	10	22
Garden City	-	-	4	1	-	5	-	-	1	3	-	-	-	4
Ridgewood	-	-	4	1	-	5	-	-	1	3	-	-	-	4
Martin Place-East	-	8	54	-	-	62	10	2	-	16	-	-	-	28
Martin Place-West	-	8	54	-	-	62	10	2	-	16	-	-	-	28
Mt. Clemens	-	-	4	-	-	4	-	-	1	-	-	-	-	1
Northwest	-	2	2	-	-	4	-	-	-	6	-	-	-	6
Palmer-East	-	1	10	-	-	11	-	2	1	-	-	-	-	3
Palmer-West	-	1	10	-	-	11	-	2	1	-	-	-	-	3
Pontiac	-	2	2	-	-	4	-	-	-	3	1	-	-	4
Riverside	-	-	-	-	-	-	-	-	-	-	-	-	2	2
Zieger	-	1	35	-	-	36	1	-	9	6	-	-	-	16
	1	30	280	3	10	324	24	10	24	84	2	3	11	160

Table 1 (Cont'd)

	Physicians with six appointments								
	A-0	A-2	A-3	A-4	A-5	N-1	N-3	N-5	Total
Art Center	-	-	-	1	3	-	-	-	4
Avon	-	-	-	-	-	-	-	-	-
Bi-County	1	-	-	3	6	-	-	-	10
Botsford	-	1	-	5	4	-	-	1	11
Detroit Osteopathic	-	-	-	-	6	-	-	6	14
Garden City	-	-	-	-	-	1	1	-	2
Ridgewood	-	-	-	-	-	1	1	-	2
Martin Place-East	-	-	-	5	9	-	-	-	14
Martin Place-West	-	-	-	5	9	-	-	-	14
Mt. Clemens	-	-	-	-	2	1	-	-	3
Northwest	-	1	-	3	3	-	-	-	7
Palmer-East	-	-	1	4	-	-	-	-	5
Palmer-West	-	-	1	4	-	-	-	-	5
Pontiac	-	-	-	-	-	1	-	-	1
Riverside	-	-	-	-	-	-	-	-	-
Zieger	-	1	-	5	4	-	-	-	10
	1	3	2	35	46	5	3	7	102

	Physicians with seven appointments						
	A-2	A-4	A-5	A-6	N-3	N-5	Total
Art Center	-	-	1	-	-	-	1
Avon	-	-	1	-	-	2	3
Bi-County	-	2	1	1	-	-	4
Botsford	-	-	1	2	-	-	3
Detroit Osteopathic	2	-	1	1	-	1	5
Garden City	-	-	-	1	-	-	1
Ridgewood	-	-	-	1	-	-	1
Martin Place-East	-	1	2	2	-	-	5
Martin Place-West	-	1	2	2	-	-	5
Mt. Clemens	-	-	-	-	2	1	3
Northwest	-	-	1	1	-	-	2
Palmer-East	-	1	-	-	-	-	1
Palmer-West	-	1	-	-	-	-	1
Pontiac	-	1	1	1	-	-	3
Riverside	-	-	-	-	-	-	-
Zieger	-	1	1	2	-	-	4
	2	8	12	14	2	4	42

Table 1 (Cont'd)

	Physicians with eight appointments								Physicians with nine appointments		
	A-3	A-4	A-6	A-7	N-4	N-5	N-7	Total	A-5	N-6	Total
Art Center	-	-	-	-	1	1	-	2	1	-	1
Avon	-	-	-	-	-	-	-	-	-	-	-
Bi-County	1	-	-	1	-	-	-	2	1	-	1
Botsford	1	1	1	-	-	-	-	3	1	-	1
Detroit Osteopathic	-	-	-	1	-	-	1	2	1	-	1
Garden City	-	-	1	-	1	1	-	3	-	1	1
Ridgewood	-	-	1	-	1	1	-	3	-	1	-
Martin Place-East	-	1	1	1	-	-	-	3	-	-	-
Martin Place-West	-	1	1	1	-	-	-	3	-	-	-
Mt. Clemens	-	-	-	1	1	-	-	2	-	-	-
Northwest	-	1	1	-	-	-	-	2	1	-	1
Palmer-East	-	-	-	1	-	-	-	1	-	-	-
Palmer-West	-	-	-	1	-	-	-	1	-	-	-
Pontiac	-	-	-	1	-	-	-	1	-	1	1
Riverside	1	-	-	-	-	-	-	1	-	-	-
Zieger	1	1	1	-	-	-	-	3	1	-	1
	4	5	7	8	4	3	1	32	6	3	9

	Physicians with 10 appointments		Physicians with 11 appointments		
	A-9	Total	A-5	N-6	Total
Art Center	-	-	-	1	1
Avon	-	-	-	-	-
Bi-County	1	1	1	-	1
Botsford	1	1	1	-	1
Detroit Osteopathic	1	1	1	-	1
Garden City	1	1	-	1	1
Ridgewood	1	1	-	1	1
Martin Place-East	1	1	1	-	1
Martin Place-West	1	1	1	-	1
Mt. Clemens	-	-	-	1	1
Northwest	-	-	-	-	-
Palmer-East	-	-	-	-	-
Palmer-West	-	-	-	-	-
Pontiac	1	1	-	1	1
Riverside	1	1	-	-	-
Zieger	1	1	1	-	1
	10	10	6	5	11

Table 2. Summary of Osteopathic Physicians' Appointments in 16 Metropolitan Detroit Osteopathic Hospitals

	1	2	3	4	5	6	7	8	9	10	11	Total
Art Center	34	14	19	1	4	4	1	2	1	-	1	81
Avon	11	8	3	1	3	-	3	-	-	-	-	29
Bi-County	1	79	29	41	12	10	4	2	1	1	1	181
Botsford	1	62	31	36	20	11	3	3	1	1	1	170
Detroit Osteopathic	51	84	38	41	22	14	5	2	1	1	1	260
Garden City	-	83	20	5	4	2	1	3	1	1	1	121
Ridgewood	-	83	20	5	4	2	1	3	1	1	1	121
Martin Place-East	-	34	33	62	28	14	5	3	-	1	1	181
Martin Place-West	-	34	33	62	28	14	5	3	-	1	1	181
Mt. Clemens	46	20	5	4	1	3	3	2	-	1	1	86
Northwest	6	2	13	4	6	7	2	2	1	1	-	44
Palmer-East	-	2	6	11	3	5	1	1	-	1	-	30
Palmer-West	-	2	6	11	3	5	1	1	-	-	-	29
Pontiac	61	7	17	4	4	1	3	1	1	-	1	100
Riverside	62	4	10	-	2	-	-	1	-	-	-	79
Zieger	3	62	29	36	16	10	4	3	1	-	1	165
	276	580	312	324	160	102	42	32	9	10	11	1858

Table 3. Summary of hospital appointments of Osteopathic Physicians in Osteopathic Hospitals in Metropolitan Detroit

Number of Appointments		Number of Physicians	% of Total Physicians	Cumulative Total of (4)	Number of full privilege Appointments
(1)	(2)	(3)	(4)	(5)	(6)
1	276	276	33.9	33.9	256
2	580	290	35.7	69.6	552
3	312	104	12.8	82.4	293
4	324	81	10.0	92.4	311
5	160	32	3.9	96.3	142
6	102	17	2.0	98.3	87
7	42	6			36
8	32	4			24
9	9	1	1.7		6
10	10	1			10
11	11	1		100.0	6
	1858	813			1723

Table 4. AVAILABILITY OF LIBRARY SERVICE IN METROPOLITAN DETROIT OSTEOPATHIC HOSPITALS

	BEDS	ATTENDING STAFF	INTERLIBRARY LOAN REQUESTS 1966-67	NO. OF SERIAL TITLES RECEIVED (1)	FULL TIME LIBRARIANS (1)	PART TIME LIBRARIANS (1)	SEPARATE DEPT.	PART OF MEDICAL RECORDS
Art Center	156	81	12	26		X		
Avon	40	29						
Bi-County	208	181		61		X	X	
Botsford	200	170	40	65		X		X
Detroit Osteo.	384	260	1939 *	100	X		X	
Garden City	236	121		39		X		
Martin Place-East	270	181	35	55		X		
Martin Place-West	174	181		8				
Mt. Clemens	200	86	200	91		X		X
Northwest	61	44		11				
Palmer-East	62	30						
Palmer-West	62	29						
Pontiac	312	100	136	42	X		X	
Ridgeway	96	121						
Riverside	160	79		38		X		
Zieger	165	165	7	60				

(1) Source: Survey of osteopathic hospital libraries.

* Includes some loans secured for staff at Bi-County and Riverside.

Table 5. Number of Physicians Shared Among 16 Osteopathic Hospitals

	Art Center	Avon	Bi-County	Botsford	Detroit Osteopathic	Garden City	Martin Pl.	Mt. Clemens	Northwest	Palmer	Pontiac	Riverside	Total	Total Staff	Ratio of total appoints over total staff
Art Center	34**	1	13	15	22	8	14	6	6	-	3	1	123	81	1.5
Avon	1	11	6	2	6	-	6	7	-	3	8	-	50	29	1.7
Bi-County	13	6	1	20	145	6	62	27	4	8	18	5	315	181	1.7
Botsford - Zieger	15	2	20	69	43	11	50	3	20	5	10	4	321*	170	1.9*
Detroit Osteopathic	22	6	145	43	51	10	77	10	14	12	24	8	422	260	1.6
Garden City - Ridgeway	8	-	6	11	10	83	15	3	10	-	3	7	239*	121	2.0*
Martin Place	14	6	62	50	77	15	34	11	16	9	15	2	345*	181	1.9*
Mt. Clemens	6	7	27	3	10	3	11	46	1	6	6	-	126	86	1.5
Northwest	6	-	4	20	14	10	16	1	6	4	2	1	84	44	1.9
Palmer	-	3	8	5	12	-	9	6	4	2	4	-	55*	30	1.8*
Pontiac	3	8	18	10	24	3	15	6	2	4	61	1	155	100	1.6
Riverside	1	-	5	4	8	7	2	-	1	-	1	62	91	79	1.2

* Includes the double appointment of two hospitals
** Number underlined indicates the number of physicians with appointment only in the one hospital

Table 6. Osteopathic Hospitals Sharing 10% or more of their Physician Staff with other Hospitals

	Total Staff	Art Center	Avon	Bi-County	Botsford	Detroit Osteopathic	Garden City	Martin Place	Mt. Clemens	Northwest	Palmer	Pontiac	Riverside
Art Center	81	42**		16	18	27	10	17					
Avon	29		37	20		20		20	24			28	
Bi-County	181				11	80		34	18				
Botsford - Zieger	170*			11	40	25		29		11			
Detroit Osteopathic	260			55	16	20		29					
Garden City - Ridgeway	121*						69	12					
Martin Place	181*			34	28	43		19					
Mt. Clemens	86			33		12		14	57				
Northwest	44	14			45	31	22	36		14			
Palmer	30*		10	26	16	40		30	20	13		13	
Pontiac	100			18	10	24		15				61	
Riverside	79					10							78

* Includes the double appointment of two hospitals

** Number underlined indicates percentage of total physician staff with appointment only in hospital indicated.

DISTANCE PHYSICIANS TRAVEL BETWEEN DETROIT OSTEOPATHIC HOSPITAL AND OTHER HOSPITALS AT WHICH THEY HAVE APPOINTMENTS